Eighteenth Meeting of the Senate

30th November 2016, 10:00 hrs.

AGENDA

AcSIR

ACADEMY OF SCIENTIFIC AND INNOVATIVE RESEARCH

Headquarters: Training and Development Complex,
CSIR Campus, CSIR Road, Taramani, Chennai- 600 113

Coordination Office: CSIR-Central Road Research Institute,
CRRI P.O., Delhi-Mathura Road, New Delhi- 110 025

Academy of Scientific and Innovative Research

Agenda for the 18ᵗʰ Meeting of the Senate

30ᵗʰ November 2016; 10:00 hrs.

Venue: CSIR-Institute of Genomics & Integrative Biology, Mathura Road, New Delhi–110025

Initiation of the Meeting

Item No. 1   **Welcome address and update of major activities by the Chairman of the Senate**

The Chairman, Senate will update the Senate on the major activities currently ongoing at the Academy.

Item No. 2   **Confirmation of the minutes of the 17th meeting of the Senate**

The 17th meeting of the Senate of AcSIR was held on August 19, 2016 at CSIR-CFTRI, Mysuru under the Chairmanship of Prof. Ram Rajasekharan.

The draft proceedings of the meeting have been reviewed and minor modifications suggested by him as the Chairman, Senate on September 8, 2016. Since then, there was a change in leadership at AcSIR on September 22, 2016 and Prof. Kunal Ray has been given the responsibility by Chairman, BoG, AcSIR to discharge the duties of the Director, AcSIR. Several reminders had been sent to Prof. Rajasekharan to approve the minutes since the meeting was held under his Chairmanship. However, AcSIR has not received any response.

Prof. Ray, the Associate Director (Academic), after taking legal advice, directed to circulate the draft Minutes among the members of the Senate on October 7, 2016. On the basis of the minutes being agreed by the members of the Senate, Prof. Ray approved the minutes of the meeting.

The Proceedings of the 17th meeting of the Senate held on August 19, 2016 is being put to the Senate for confirmation at **Annexure A-1.**

Initiation of the Meeting

Item No. 3   **Action Taken Report (ATR) on the 17th Meeting of the Senate**

The Action Taken Report on the Proceedings of the 17th meeting of the Senate of AcSIR held on August 19, 2016 is furnished at **Annexure A-2.**

Item for Ratification

Item No. 4   **Admissions for the August 2016 session:**
PhD program in Science and Engineering

The admission of 367 students for the PhD program in Science and Engineering for the academic session August 2016 has been completed at different participating CSIR laboratories and ratified at the 17th meeting of the Senate.

An additional 125 students have been selected for PhD program following the due procedure CSIR Labs, listed below, which could not be placed in the last Senate meeting and is being placed now for ratification at **Annexure A-3**:

CSIR-NCL
CSIR-IICT
CSIR-NIO
CSIR-NML
CSIR-CSMCRI
CSIR-IHBT
CSIR-IICB

Item for Ratification

Item No. 5   Initiation of PG Diploma programs at CSIR-CMERI and ratification of admissions

CSIR-CMERI had proposed introduction of three PG Diploma (PGD) programs before the 17th Senate meeting (held on 19th August, 2016) in the following areas:

- Advance Manufacturing Technology (PGDAMT)
- Robotics (PGDR)
- Industrial Maintenance Engineering (PGDIME)

AcSIR had agreed in principle admission to the above-mentioned PG Diploma programs proposed by CSIR-CMERI and suggested discussion on this issue in 17th Meeting. The Senate deliberated in details on the subject and opined that in the current situation lacking top leadership (regular Director and Associate Directors), management (BoG and its Chairperson) and adequate supporting staff, further intake of additional academic programs will weaken the Academy and did not support the proposal.

Following the decision of the Senate, the Director of CSIR-CMERI appealed to the Chairman, Senate to reconsider the decision of the Senate since the CSIR Lab had already initiated the process based on in principle approval already accorded to the Lab. He asserted that reversal of the process would adversely affect the reputation of both CSIR and AcSIR. Considering the situation, the Chairman, Senate (Prof. Rajasekharan) approved the PG Diploma course proposals and opined that it would be ratified at the next Senate meeting. **Annexure A-4(a)**.

Accordingly, CSIR-CMERI selected 27 students for its three PG Diploma programs following due procedure.

The proceedings of the selection committee meeting are enclosed at **Annexure A-4(b)** for ratification by the Senate.

Item for Ratification

Item No. 6 **PhD (Science and Engineering) results for the award of the Degree**

The PhD program of AcSIR has formally begun from the January 2011 session across all the CSIR laboratories. Currently, the program has more than 3500 PhD students enrolled/registered across the CSIR Labs in the five faculties of study.

Since the last (i.e. 17th) meeting of the Senate held on 19th August, 2016, 87 students have completed all the academic requirements for the award of PhD degree including successful completion of the viva voce examination. The Chairman, Senate has already approved the award of the degree.

The reports of the viva-voce examination committee of all the 87 students along with the approval of the Chairman, Senate are being placed to the Senate for ratification of the results for the award of the formal degrees at **Annexure A-5**.

Item for Ratification

Item No. 7   Course Related Items: New and Modifications

A few Laboratories have proposed new courses for introduction from the January 2017 session under different faculties of studies and some Labs proposed modifications of existing courses. All the proposals have been recommended by concerned Deans or Associate Deans for ratification of the Senate.

New courses:
Biological Sciences:
CSIR-CCMB
CSIR-IITR

Chemical Sciences:
CSIR-NCL
CSIR-CSMCRI
CSIR-NEIST

Engineering Sciences:
CSIR-CEERI
CSIR-IICT

Modified courses:
Chemical Sciences:
CSIR-IICT

Engineering Sciences:
CSIR-IICT

The details of the new and modified courses are furnished in **Annexure A-6** for ratification of the Senate. On receipt of approval of the Senate, the course booklet for each of the faculty will be updated appropriately and uploaded in AcSIR website.

Item for Ratification

Item No. 8   **Minor revision of Eligibility criteria for Summer Training program**

AcSIR-Dr. APJ Abdul Kalam Summer Training Program was initiated in 2015 for students to spend their Summer Internship in allotted CSIR Laboratories. Twenty such fellowships are being awarded to meritorious students across the country.

Based on the experience during last call for applications in December 2015 and to bring uniformity in evaluation, the eligibility matrix has been modified to:

(i)   include students who are enrolled in other programs equivalent to those already approved (i.e. B.E/B.Tech/ M.Sc/ M.E/ M.Tech/ Integrated M.E or M.Tech).

(ii)   unlike the previous year (2015), the students will be evaluated on the basis of CGPA only and not percentage of marks to bring uniformity in the process of evaluation. In case, the degree awarding University/ Institution does not provide a formula for conversion for percentage of marks to CGPA, the following formula should be used for computation: CGPA = (Percentage + 5)/10

Proposal: The modified eligibility criteria, as above, duly approved by the Summer Training Program Committee and the Chairman, Senate is placed at **Annexure A-7** for ratification of the Senate.

Item for Information

Item No. 9   PhD (Science) and PhD (Engineering) results: Degrees awarded

The Convocation of AcSIR could not be conducted in the year 2015-16 due to not having a functional BoG and its Chairman despite an ongoing effort regarding these matters from AcSIR due to some logistic issues. Normally, the certificate for the degree should be given during Convocation to be held in September. The situation demanded an executive decision to be made to mitigate the struggle of graduating students with respect to advancement of their career and for compliance with UGC guidelines to distribute the certificate without delay. Accordingly, the Chairman, Senate recommended distribution of degree certificates without holding the Convocation and requested for the approval of Chairman, BoG, AcSIR, and the approval was accorded on November 9, 2016. Therefore, Degree Certificates and Mark sheets are planned to be distributed to the students by December 31, 2016 who completed their programs up to November 28, 2016 as detailed below:

Program Name	Approval of Chairman, BoG received on 02.11.2016	Approval of Chairman, BoG to be obtained
Ph.D (Science)	233 students	23 students
Ph.D (Engineering)	13 students	1 student
M.Tech	47 students	-
M.Sc	11 students	-
PG Diploma	6 students	-
Total	**310 students**	**24 students**

List of Degree Certificates and Mark sheets to be distributed to all 334 students after obtaining necessary approvals, are placed at **Annexure A-8** for information of the Senate.

Of the above, results of 87 students [83 of PhD (Sciences) and 4 of PhD (Engineering)] completing their academic requirements after 17th Senate but on or before November 28, 2016 will also be distributed with approval of Chairman, Senate and Chairman, BoG/Chancellor, AcSIR. These results are placed, as a separate item, for ratification by the Senate in Agenda Item No. 6 above.

Item for Information

Item No. 10   Faculty related: Updates on Faculty List of AcSIR
(Modifications received since 17th Senate Meeting)

AcSIR routinely receives requests for modification of faculty list based on participation of newly hired CSIR scientists in the Academy, promotion, superannuation or resignation of the existing staffs. Approval of the Chairman, Senate (as authorized at the 9th meeting of the Senate) has been obtained for appropriate changes in the Faculty for the following Labs:

Sl. No.	Name of CSIR Lab/ Institute	Status
1.	CSIR-CDRI	Addition/Modification/Deletion
2.	CSIR-CFTRI	Addition
3.	CSIR-CMERI	Deletion
4.	CSIR-CSMCRI	Addition
5.	CSIR-4PI	Modification
6.	CSIR-IICT	Addition/Modification
7.	CSIR-NCL	Addition
8.	CSIR-NEERI	Addition
9.	CSIR-NEIST	Addition
10.	CSIR-NIIST	Addition
11.	CSIR-NPL	Addition

Details are placed at **Annexure A-9** for information of members of the Senate.

Item for Discussion and Approval

Item No. 11   **Guidelines for Academic Leaves by Students of Various AcSIR Programs**

Background: The issue of formulating guidelines for academic leaves for MTech students was first raised at the 13th Senate held on 23rd January 2015 and Prof. KV Raghavan volunteered to formulate the required guidelines. Due to preoccupation, he could not take up the job in time. Prof. Raj Singh was entrusted by the Senate at its 16th meeting held on 6th May 2016 to prepare a guideline on the subject for consideration of the Senate.

Anticipating the need of the Academy, Prof. Raj Singh has broadened the scope of the required guideline on Academic leaves for the MTech students only to include all students of AcSIR enrolled in various programs.

Proposal: The draft Guidelines for Academic Leaves by students of various AcSIR Programs, as submitted by Prof. Raj Singh is being placed at **Annexure A-10** for consideration and approval of the Senate.

Item for Discussion and Approval

Item No. 12   **Redefining the criteria for the award of Degrees with Distinction**

Background: The AcSIR Senate at its 12th meeting held on 17th November 2014 approved the determination of 'Distinction' mark at AcSIR at ≥8.00 CGPA. No further detail with respect to awarding Distinction has yet been decided.

A specific case involving an M.Tech student from CSIR-CSIO from current graduating batch (2014-16) has made it imperative to provide details in awarding Distinction.

A student, mentioned above, did not pass 'Sensors and Actuators' (mandatory course) and was awarded a 'Grade C' in the first semester (August 2014 session) and refused to take retest till end of July 2016. After taking re-test in Aug 2016, he scored CGPA of 8.01. Coordinator, CSIO sent his result to the Associate Dean, Engineering for approval and determination on award of distinction. It was determined that since the program requirements were not completed in a single attempt and within the specified timeframe he would not be awarded a Distinction.

The student challenged the action on the basis that two other students have been previously awarded Distinction based on CGPA only, despite appearing for Re-test.

On asking Prof. H. K. Sardana, AcSIR Coordinator at CSIO, for clarification, he mentioned that previous two students had taken the re-test immediately and on the basis of the CGPA they were awarded distinction. The Coordinator essentially said that this particular student had refused to take advice since 2014 on multiple times to take retest and did so later on August 29, 2016, in which he scored 'C+' and could pass the program with an overall CGPA of 8.01.

The student has requested the Acting Director, AcSIR to reexamine his case. Chairman, Senate thought it appropriate to place the case before Senate for determination. In this context, Prof. Sardana also suggested that the guideline for award of distinction should be more clearly defined having no room for any ambiguity.

Proposal: In that context, members of the Senate may kindly deliberate on the following two issues and provide suitable recommendation:

(a) Whether the concerned student can be awarded distinction considering his conduct and performance.
(b) The guideline may appropriately be modified that distinction can be awarded only on scoring CGPA ≥8 on a single attempt.

Relevant details are placed at **Annexure A-11.**

Item for Discussion and Approval

Item No. 13   **Discussion regarding rules described in AcSIR Act**

   (i)   **Ex-Officio members of the Board [Section 11(1)(c-g) of the AcSIR Act, 2011]**

   (ii)   **Term of office of members of Board [Section 16(1) Explanation II Proviso]**

   (iii)   **Appointment of Associate Director [Section 23 (1) of AcSIR Act, 2011]**

Background: During the course of operation, certain inconsistencies have been observed between the AcSIR Act and Statutes and Ordinances. In addition, based on working experience it is evident that certain minor amendments in the Act would be essential for ease of working in the Academy.

As per Section 38(1) of the Act, any amendment in it is allowed within three years for removal of difficulty. This was not done in case of the AcSIR Act.

Since Rajya Sabha has directed to amend the AcSIR Act to include laying of Subordinate Legislation to both Houses of the Parliament, AcSIR would like to take this opportunity to propose minor amendments in the AcSIR Act, 2011 to remove serious difficulties faced during the last six years.

The following sections of AcSIR Act are to be amended as per the proposal furnished below:

(i)   **Ex-Officio members of the Board [Section 11(1)(c-g) of the AcSIR Act, 2011]**

Background: Section 11(1)(c-g) of the AcSIR Act, 2011 provides details of the ex-officio members of the AcSIR Board of Governors as under:

   (c) the President of the Indian National Science Academy
   (d) the Chairman, Atomic Energy Commission, Government of India
   (e) the Chairman, Space Commission, Government of India
   (f) the Chairman, University Grants Commission, Government of India
   (g) the Finance Secretary in the Ministry of Finance, Government of India

Historically it has been observed that except for attendance of the President, INSA in three of the six BoG meetings held so far, none of the other ex-officio members have attended any of the BoG meetings. Therefore, it is important that necessary steps be taken to ensure attendance of the ex-officio members at the Board meetings.

Proposal: In view of the above, it is therefore proposed that an additional clause may be inserted as 11(5) to include that the ex-officio members of the Board as mentioned under Section 11(1) (c to g) may nominate an official from the same

Department, not below the rank of Joint Secretary, to represent during the Board meetings. The exact logistics and legal language for the amendment is proposed to be done with the help of the Committee to examine Subordinate Legislation formed by Secretary, DSIR.

(ii) Term of office of members of Board [Section 16(1) Explanation II Proviso]

Background: The proviso to Explanation II of Section 16(1) of the AcSIR Act, 2011 states that "*Provided that an outgoing member of the Board shall, unless or otherwise directed, continue in office until another person is appointed, or, as the case may be, nominated as a member in his place*". The 'member' includes also its Chairman. AcSIR had sought clarification from its Legal Advisor at the end of the tenure of the Board for possible continuation till the Board is re-nominated by the President of CSIR. It was clarified that the use of the words "*unless or otherwise*" prevents continuation of the Board. Therefore, it was suggested that removal of the word "or" would have allowed the continuation of the Board till its re-nomination.

Proposal: It is proposed that the proviso to Explanation II of Section 16(1) may be revised to read as follows:

"*Provided that an outgoing member of the Board shall, unless otherwise directed, continue in office until another person is appointed, or, as the case may be, nominated as a member in his place*".

(iii) Appointment of Associate Director [Section 23 (1) of AcSIR Act, 2011]

Background: Section 23(1) of the AcSIR Act deals with the appointment of Associate Directors of AcSIR and states that "*The Associate Directors of the Academy shall, be appointed by the Director with the approval of the Board, from amongst Professors of the Academy or scientists of the Council of Scientific and Industrial Research engaged in academic activity in the Academy, for such period, and on such terms and conditions, as may be laid down by the Statutes*……". The tenure of the Associate Directors has been fixed between three to five years in the Recruitment Rules of AcSIR, duly approved by the Board of Governors, AcSIR.

As per the Statutes of AcSIR, there are five positions of Associate Directors as follows:
   i)   Associate Director (Academic),
   ii) Associate Director (Student Affairs),
   iii) Associate Director (Admin & Finance),
   iv) Associate Director (Resource Development & Network) and
   v)   Associate Director (Institute Affairs and ICT Infrastructure).

As per the Recruitment Rules of AcSIR, positions (i) and (ii) should "*preferably be hired from among scientists (present or past) with a background of CSIR and with a thorough knowledge of the system. Such positions may also be filled up by ad-hoc appointment from among the scientists of CSIR, to be nominated by Vice Chairman and to be appointed by the Director with the approval of the Chairman*." For positions (iii), (iv) and (v) the "*candidates with exceptional track records from outside the Academy/CSIR system shall primarily be considered*".

Recently the Fact Finding Committee constituted by the Secretary, DSIR has pointed out inconsistencies between the AcSIR Act and the Subordinate Legislations (i.e. Statutes & Ordinances), and recommended to be fully compliant. It is clear that the relevant clauses, as above, in the Statutes is not consistent with AcSIR Act. While considering appointment of Associate Director it was noticed that as per AcSIR Act, only *Professors of the Academy* or *scientists of the CSIR engaged in academic activity in the Academy* may be considered for the positions. This clause of the AcSIR Act raises the following problems:

    i) Scientists of CSIR may not have sufficient expertise in areas of Administration and Finance.

    ii) AcSIR Act is not clear whether the scientists of CSIR who have superannuated from CSIR may also be considered for the positions.

Proposal: Considering the expertise required for filling up the positions of the Associate Director, the following amendment is being proposed for consideration of the Senate:

"*The Associate Directors of the Academy shall, be appointed by the Director with the approval of the Board, from amongst Professors of the Academy or regular/superannuated scientists/staffs of the Council of Scientific and Industrial Research engaged in academic/administrative/ financial/ networking activity for such period, and on such terms and conditions, as may be laid down by the Statutes……*"

The exact logistics and legal language for the amendment is proposed to be framed with the help of the Committee to examine Subordinate Legislation formed by Secretary, DSIR.

Items for Discussion and Approval

Item No. 14   **Enrollment and registration of PhD students under Emeritus Scientists/Professors**

Background: As per the Faculty Guidelines of AcSIR, an emeritus CSIR scientist teaching in AcSIR courses and/or supervising an AcSIR PhD student can be an Emeritus Professor of the Academy. And, he/she can be an independent guide for the PhD students. However, clarification needed to be provided for two specific issues, (i) Limit on number of PhD students enrolled, and (ii) engagement of a co-guide.

Proposal: It is proposed that considering the limited resources and tenure of an Emeritus Scientists/Professor, maximum two PhD students can be enrolled with him/her. If however, he/she already have some PhD students being supervised from the period prior to superannuation, additional students may not be taken. Also, all PhD students enrolled with Emeritus Scientists/Professors must also have a Co-guide to ensure continuity of the study.

Items for Discussion and Approval

Item No. 15   Quarterly declaration of formal results and award of degree certificates

Background: As per Clause 7.7.3 of the AcSIR Ordinances, the final degree is to be awarded to the AcSIR students at the time of convocation of the Academy presided by its Chancellor. Usually, the specified time for the Convocation and the conferment of the degrees is September.

As per UGC *Regulation 2008 for Grant of Degrees and other awards by Universities*, "*the objective should be to facilitate timely holding of convocation or adopting any other method, for conferring the Degrees and other awards to eligible students*" (copy placed at **Annexure A-12**)*. Following are the relevant clauses from the Regulation:*

Clause 4.4: Degree award date/s shall be within 180 days of the date/s by which the students are expected to qualify and become eligible for them.

Clause 4.8: If for any reason the Convocation is not held, the Universities shall give away the Degrees and other Awards to the eligible candidates".

Majority of the students of AcSIR are registered for PhD degree and the requirement for completion of degree is fulfilled throughout the year. Thus, giving away degree at one time during Convocation in September will not be consistent with UGC guideline and conferring PhD degree to the students qualified between October to March will be delayed by 6 to 12 months.

Current procedure followed by the Academy translates to hardship by the students for steps taken for career advancement.

Proposal: The PhD degree certificates and grade cards will be prepared every quarter (March, June, September and December) which would normally be given during Convocation or prior to 180 days, whichever is earlier, as per UGC guideline. However, if any student requesting for certificate at other times with proper justification of need, will be considered for giving their final degree certificates and grade cards.

All other degree/diploma programs (MTech, MSc, Diploma etc.) completing in July-August will received the certificate during Convocation held in September.

Item for Discussion & Approval

Item No. 16   **Proposal for recognition of AcSIR as member institution under**:

    (i)   **Global Initiative of Academic Networks (GIAN)**
    (ii)   **Shastri Indo-Canadian Institute (SICI)**

(i)   **Global Initiative of Academic Networks (GIAN):**

Background: A proposal has been received from Prof. H.K. Sardana, Coordinator, CSIR-CSIO for consideration of AcSIR to be a member institution of Global Initiative of Academic Networks (GIAN), a program introduced by the Government of India. Participation in such a network will give wider exposure to students of AcSIR to the academic world of excellence.

Profile of GIAN: Global Initiative of Academic Networks (GIAN) in Higher Education has been introduced by the Govt. of India aimed at tapping the talent pool of scientists and entrepreneurs internationally to encourage their engagement with the institutes of Higher Education in India so as to augment the country's existing academic resources, accelerate the pace of quality reform, and elevate India's scientific and technological capacity to global excellence. (http://www.gian.iitkgp.ac.in/).

The GIAN Website lists institutions like IITs, IIITs, NITs, IISc, IISERs, IIEST, National Law Schools, IIMs, Central Universities and State Universities who would be considered for approved institutions as of now and other would be considered in due course.

Proposal: Senate members are requested to kindly consider the proposal for AcSIR being a member institution of Global Initiative for Academic Networks (GIAN). The detailed proposal received from Coordinator, CSIR-CSIO is enclosed at **Annexure A-13(a)** for consideration and in-principle approval of the Senate to apply for affiliation, whenever GIAN is accepting applications from other institutions**.**

(ii)   **Shastri Indo-Canadian Institute (SICI)**

Background: A proposal has been received from Prof. H.K. Sardana, Coordinator, CSIR-CSIO for consideration of AcSIR to be a member institution of Shastri Indo-Canadian Institute (SICI), a bi-national organization that promotes understanding between India and Canada through academic activities and exchanges.

Profile of SICI: The Shastri Indo-Canadian Institute became bi-national in 2005. It has the honour of being the only Institution which has fifty one (51) premier academic Institutions as its members in India (including IITs, IIMs, Law schools, Central and State Universities) and thirty eight (38) universities in Canada (including McGill, Queen's and York Universities).

Proposal: Senate members are requested to kindly consider the proposal for AcSIR being a member institution of Shastri Indo-Canadian Institute (SICI). The detailed proposal received from the Coordinator, CSIR-CSIO is placed at **Annexure A-13(b)** for consideration of the Senate.

Item for Discussion & Approval

Item No. 17   **Proposal for being an affiliate center from Inter University Centre for Biomedical Research & Super Speciality Hospital**

Background: A preliminary proposal was received by AcSIR from Inter University Centre for Biomedical Research & Super Speciality Hospital (IUCBR & SSH), Kottayam, Kerala for registering the students for PhD and other higher degrees, academic and research cooperation, and development of biomedical technologies for the use of mankind.

Profile of IUCBR & SSH: The Government of Kerala has established the Inter University Centre for Biomedical Research & Super Speciality Hospital (IUCBR & SSH) to impart Higher Academic and Advanced Research Education in association with various Universities and Research Institutions in the field of Biomedical Research including Geriatrics, Virology, Drug Development, Immunology, Developmental disabilities, Diagnostics etc. encompassing an inter-disciplinary approach and activities.

Proposal: Senate members are requested to consider the proposal received from IUCR & SSH, placed at **Annexure A-14** and provide guidance for any possible collaboration, if appropriate.

Item for Discussion & Approval

Item No. 18   **Proposals received for initiation of Diploma programs**
   a) CSIR-NPL: Precision Measurements & Quality Control
   b) CSIR-NIO: Diploma in Aquaculture Technology
   c) CSIR-IGIB: PG Diploma in Genomics and Molecular Technologies for Industrial Applications
   d) CSIR-IHBT: Computational Biology, Big and Bio data analytics

a) CSIR-NPL: Precision Measurements & Quality Control

Background: CSIR-NPL had proposed the Diploma program in Precision Measurements & Quality Control at the 16th meeting of the Senate and the proposal had received in-principle approval of the Senate. The Senate had also sought some clarification, which was appropriately responded by CSIR-NPL.

The Senate, in its 17th meeting, on persuasion of its former Chairman, decided that different diploma programs related to Skill India initiative should not be taken up at the current time. However, subsequently approval was given to CSIR-CMERI for implementation of their program, which was mentioned to be ratified in the upcoming Senate meeting (Agenda Item No. 5). Since programs under same category was proposed by both CSIR-CMERI and CSIR-NPL, for consistency it is important that the decision for approval of the program should be taken based on same criteria.

Proposal: Senate members are requested to consider and review the proposal from CSIR-NPL on Diploma in Precision Measurements & Quality Control in order to be consistent with the decision in case of CSIR-CMERI.

b) CSIR- NIO: Diploma in Aquaculture Technology

Background: CSIR-NIO, Goa has proposed 'Diploma in Aquaculture Technology (DAT)' under the skill development program of the Govt. of India. The proposed Diploma program is of seven months duration (mid-October to mid-May). The proposal contains justification/need for the course, key linkages, areas and sectors of employment etc. along with the

course content for the program, duly approved by the Dean, Physical Sciences [**Annexure A-15(a)**].

On scrutiny it has been observed that that the proposal has not addressed certain issues that has been brought up by Senate earlier, e.g., details on the background/eligibility criteria of the students, analysis on relevance and sustainability of the course, number of student intake, the program fees etc.

Proposal: On the basis of recommendation of the Dean, in-principle approval may be provided subject to providing further details as mentioned above. Senate members are requested to consider and review the proposal received from CSIR-NIO, in order to be consistent with the decision in case of CSIR-CMERI.

c) CSIR-IGIB: PG Diploma in Genomics and Molecular Technologies for Industrial Applications

Background: A proposal has been received from CSIR-IGIB to initiate a one-year PG Diploma program in Genomics and Molecular Technologies for Industrial Applications under the Skill India program. The proposal provides details of eligibility/age criteria, the schedule of the program, the intended student intake for the program and the proposed course fee etc. Details are provided at **Annexure A-15(b).**

Proposal: Details of the proposed program is placed for review and consideration of the Senate members.

d) CSIR-IHBT: Computational Biology, Big and Bio data analytics

Background: A proposal has been received from CSIR-IHBT to initiate one-and-a-half-year (3 semester) PG Advanced Diploma in Computational Biology, Big and Bio data analytics. The proposal provides details on the eligibility criteria, the schedule of the program, the intended student intake for the program, the proposed course fee and the possible employment opportunities for the students. CSIR-IHBT has also requested for seed money of Rs. 2.0 lakhs per annum for contingency, examination, external and visiting lectures etc. Details are provided at **Annexure A-15(c).**

Proposal: Details of the proposed program is placed for review and consideration of the Senate members.

Item for Discussion & Approval

Item No. 19   **An update on UGC's recommendation for award of MPhil/PhD Degree, 2016: follow up from 17ᵗʰ meeting of Senate**

Background: As proposed at the 17ᵗʰ meeting of Senate for adoption of the 'UGC (Minimum Standards and Procedure for Award of M.Phil/PhD Degrees) Regulations, 2016', the Senate agreed in principle to adopt the same. However, Senate formed a Committee to review the suggested modifications in details for appropriate adoption. The Committee has reviewed the guidelines in details and provided its recommendation. The details of the proposed changes, as recommended by the Committee and approved by the Chairman, Senate is placed at **Annexure A-16.**

Proposal: The Senate is requested to review the recommendation of the Committee and approve the same.